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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/874,145	06/05/2001	Yun-Yu Wang	FIS9-1997-0266US4	6641	
75	90 03/17/2004		EXAMINER		
Jay H. Anderson			NADAY	NADAV, ORI	
IBM Corporation 2070 Route 52	on - Zip 482		ART UNIT PAPER NUMBER		
Hopewell Junction, NY 12533			2811		
			DATE MAILED: 03/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	X		
	Application No.	Applicant(s)	
Advisory Action	09/874,145	WANG ET AL.	
-	Examiner	Art Unit	
	ori nadav	2811	
-The MAILING DATE of this communication appe	ears on the cover sheet with the c	correspondence addr	ess
THE REPLY FILED 17 February 2004 FAILS TO PLACI Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may <u>only</u> be either: (condition for allowance; (2) a timely filed Notice of Appe Examination (RCE) in compliance with 37 CFR 1.114.	void abandonment of this application (1) a timely filed amendment whi	cation. A proper rep ch places the applic	oly to a cation in
PERIOD FOR RE	PLY [check either a) or b)]		
 a) The period for reply expires 3 months from the mailing date of b) The period for reply expires on: (1) the mailing date of this Adverse, the event, however, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). 	risory Action, or (2) the date set forth in th an SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THI	f the final rejection. E FINAL REJECTION. S	ee MPEP
Extensions of time may be obtained under 37 CFR 1.136(a). The da have been filed is the date for purposes of determining the period of extens 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three most patent term adjustment. See 37 CFR 1.704(b).	sion and the corresponding amount of the I statutory period for reply originally set in	fee. The appropriate extended the final Office action; or (ension fee under (2) as set forth in
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CF			
2. \square The proposed amendment(s) will not be entered b	ecause:		
(a) they raise new issues that would require further	er consideration and/or search (see NOTE below);	
(b) they raise the issue of new matter (see Note by	pelow);		
(c) they are not deemed to place the application issues for appeal; and/or	in better form for appeal by mat	erially reducing or s	implifying the
(d) they present additional claims without cancel	ing a corresponding number of	finally rejected clain	ns.
NOTE:	•		
3. \square Applicant's reply has overcome the following rejection	tion(s):		
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a s	eparate, timely filed	amendment
5. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ request fo application in condition for allowance because: See		sidered but does NO	T place the
6. The affidavit or exhibit will NOT be considered be raised by the Examiner in the final rejection.	cause it is not directed SOLELY	to issues which wer	re newly
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims w			and an
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: 1-18.			
Claim(s) withdrawn from consideration: 19-26.			
8. The drawing correction filed on is a) app	proved or b) disapproved by	the Examiner.	
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s).	·	
10. Other:		- Na Z RI NADAV Let examine	7
	0	RI NADAV	
	Pa	her examine	

DETAILED ACTION

Response to Arguments

Applicant argues that the claimed limitations, as recited I claim 1 are clear.

The examiner agrees with applicant's arguments, and the 112 rejection of claims 1-18 is withdrawn.

Applicant argues that Rathore et al. does not teach any annealing process, and Farahani et al. do not teach forming a second silicide layer overlying the first silicide layer, where the second silicide includes titanium and an element from the group consisting of Co, W, Ta, Rd and Mo.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Rathore et al. is cited to teach an artisan a second silicide layer overlying a first silicide layer, where the second silicide includes titanium and an element from the group consisting of Co, W, Ta, Rd and Mo, wherein Farahani et al. is cited to teach an artisan an annealing process.

Applicant argues that there is no motivation to combine the references.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by

combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, it is known that annealing would improve the adherence of the glue layer to the dielectric.

Applicant argues that the examiner statement "these features are inherent in the device of Farahani et al. and Rathore et al., because Farahani et al. and Rathore et al.'s structure is identical to the claimed structure", is not understood because and the devices of Farahani et al. and Rathore et al. are not identical, and annealing would not have the same effect on both structures.

The examiner did not state that the devices of Farahani et al. and Rathore et al. are identical, and annealing would not have the same effect on both structures. The examiner stated that the device of Farahani et al. and Rathore et al. is identical to the claimed structure, and the effect of annealing would be similar on both structures (the device of Farahani et al. and Rathore et al. and the claimed structure).

Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such

papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used <u>only</u> for papers related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to *Examiner Nadav* whose telephone number is **(571) 272-1660**. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **308-0956**

O.N. 3/9/04 ORI NADAV
PATENT EXAMINER
TECHNOLOGY CENTER 2800

L. Nan

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